

Montana

Barley Varieties

2006

Released: July 12, 2006



NATIONAL
AGRICULTURAL
STATISTICS
SERVICE

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Montana farmers seeded 800,000 acres of barley in 2006, down from 900,000 acres in 2005. Almost sixty percent of the acres seeded to barley were malting and brewing varieties recommended by the American Malting Barley Association Inc. for use in Montana. The top variety seeded in Montana was Harrington, maintaining its position for the thirteenth consecutive year.

MALTING VARIETIES

Harrington remains the top variety planted in the state for the thirteenth year in a row. It was seeded on 243,900 acres or 30.5 percent of Montana's barley acreage. Harrington is the most popular variety of barley recommended by the AMBA for planting in Montana. It is a two-rowed malting barley variety developed by the University of Saskatchewan. It matures one day earlier than AC Metcalfe. It is susceptible to leaf diseases (net blotch, scald), stem rust, and loose smut. It has a long, rough awn and a white aleurone.

AC Metcalfe stays in second place this year, with 141,700 acres planted, which accounts for 17.7 percent of Montana's barley acreage. It is a two-rowed malting barley developed by Agriculture and Agri-Food Canada, located in Brandon, Manitoba. It has a 7 percent higher yield and matures one day later than Harrington. It is resistant to loose smut, and is moderately resistant to the spot-form of net blotch, surface-borne smuts, and common root rot. It is susceptible to scald and spetoria.

B Merit moves into third place for malting barley varieties planted. Montana farmers seeded 36,900 acres, or 4.6 percent of Montana's barley acreage. Merit is a two-rowed, mid-maturing, mid-dense head barley adapted to the West's InterMountain barley producing region. Glume hair is long and confined to a band. Seed is covered, finely wrinkled with wax present and the aleurone is colorless. It is resistant to net blotch and moderately resistant to scald. B Merit is a spring barley bred and developed by Busch Agricultural Resources, Inc.

Tradition moves into fourth place for malting barley varieties this year. It accounts for 26,600 of the barley acres seeded this year or 3.3 percent of the acreage. Tradition is a six-rowed malt barley developed by Busch Agricultural Resources Inc. and was recommended by the AMBA for use in Montana. It matures one day later than Morex and two days earlier than Robust. A white pearl, long-haired rachilla, and a semi-smooth beard are identifiers for this variety.

FORAGE VARIETIES

Haybet remains the most popular forage barley for the seventh year in a row, with 118,100 acres seeded, which accounts for 14.8 percent of the total barley acres seeded in Montana for 2006. Haybet, as the name implies, is used primarily for hay. It was developed cooperatively by the Agricultural Research Service, United States Department of Agriculture (USDA), and the Montana Agricultural Experiment Station in 1989. It is a two-rowed, hooded, white-kerneled spring hay barley. Compared to Horsford hay barley, Haybet is 3 days later in heading and similar in plant height and percent lodging. Haybet is higher in hay yield than Horsford, but they are similar in grain yield.

Westford is the second most popular forage barley for the fourth year in a row, with 15,500 acres or 1.9 percent of the state barley acres seeded in 2006. It is a 6-row hooded hay barley developed by Western Plant Breeders of Bozeman, Montana. Maturity is considerably later than Horsford and Whitford, allowing for greater forage production. Seed yield is low (similar to Horsford). Hay yields are considerably higher than Horsford. Hooded barleys are sometimes vulnerable to ergot, but the amount is slight.

FEED VARIETIES

Bowman moves into first place as the most popular feed variety, after being ranked second in 2005, with 16,800 acres or 2.1 percent of the barley acres seeded in 2006. Released in 1984 by the North Dakota Agriculture Experiment Station, Bowman is a non-malting two-row barley that has a high drought tolerance and high test weight.

Valier moves up to the second most popular feed variety in 2006, representing 1.8 percent of the total acreage or 14,200 acres seeded in Montana. Released in 1999 and developed by Montana State University, Valier is a two-rowed, white aleurone, mid-season maturity barley. The spike has long rough awns equal to the length of the hair-covered glume. Kernels have adhering, finely wrinkled hulls and long rachilla hairs. Valier retains sterile lateral florets.

This Barley Variety Survey was funded by the Montana Wheat and Barley Committee and the American Malting Barley Association, Inc. Statements concerning variety characteristics are primarily derived from information published by Montana State University and the University of Idaho.

Barley: 2006 Seeded Acreage and Percent of Total Seeded by Districts																
Variety	Northwest		North Central		Northeast		Central		Southwest		South Central		Southeast		State Total	
	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%
Harrington*	2.3	11.9	189.7	45.7	8.1	8.1	26.3	20.2	11.6	33.0	3.4	6.5	2.5	5.0	243.9	30.5
AC Metcalfe*	0.2	1.3	119.9	28.9	0.0	0.0	15.5	11.9	5.7	16.3	0.3	0.6	0.1	0.2	141.7	17.7
Haybet	4.7	24.7	24.1	5.8	26.5	26.5	27.2	20.9	5.9	16.9	3.2	6.1	26.5	54.1	118.1	14.8
B Merit*	0.1	0.5	27.8	6.7	0.0	0.0	6.8	5.2	0.0	0.0	2.2	4.2	0.0	0.0	36.9	4.6
Tradition*	0.0	0.0	0.0	0.0	24.5	24.5	0.0	0.0	0.0	0.0	0.0	0.0	2.1	4.3	26.6	3.3
Moravian 37	0.0	0.0	3.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0	17.5	33.7	0.5	1.0	21.3	2.7
Conrad	0.0	0.0	11.6	2.8	1.0	1.0	3.4	2.6	0.0	0.0	4.8	9.3	0.0	0.0	20.8	2.6
Bowman	0.0	0.0	5.8	1.4	2.3	2.3	4.6	3.5	0.0	0.0	3.1	6.0	1.0	2.1	16.8	2.1
Westford	0.4	2.2	2.1	0.5	2.0	2.0	4.8	3.7	1.1	3.2	4.2	8.0	0.9	1.9	15.5	1.9
Valier	0.1	0.5	5.0	1.2	3.5	3.5	4.8	3.7	0.0	0.0	0.0	0.0	0.8	1.7	14.2	1.8
Hays	0.5	2.7	2.5	0.6	2.1	2.1	1.7	1.3	3.0	8.6	1.3	2.5	2.9	6.0	14.0	1.7
Conlon*	0.0	0.0	3.3	0.8	2.7	2.7	6.0	4.6	0.0	0.0	0.0	0.0	1.5	3.1	13.5	1.7
Baronesse	2.3	12.0	2.1	0.5	1.8	1.8	3.4	2.6	2.0	5.7	1.7	3.2	0.0	0.0	13.3	1.7
Legacy*	0.0	0.0	0.4	0.1	11.8	11.8	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.3	12.8	1.6
Haxby	2.2	11.4	1.7	0.4	1.4	1.4	1.4	1.1	1.1	3.2	2.8	5.3	1.5	3.1	12.1	1.5
Hector	0.0	0.0	0.0	0.0	5.7	5.7	5.5	4.2	0.0	0.0	0.1	0.1	0.2	0.4	11.5	1.4
Gallatin	0.4	2.1	0.4	0.1	0.0	0.0	7.3	5.6	1.2	3.4	0.9	1.8	0.1	0.3	10.3	1.3
Westbred Xena	0.0	0.0	2.5	0.6	0.0	0.0	4.9	3.8	0.2	0.7	0.0	0.0	0.0	0.0	7.6	0.9
Stark	0.0	0.0	2.1	0.5	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	6.2	7.1	0.9
Lewis	0.0	0.0	0.8	0.2	1.8	1.8	2.6	2.0	0.0	0.0	0.0	0.0	1.2	2.5	6.4	0.8
Horsford	0.6	2.9	1.7	0.4	0.8	0.8	1.0	0.8	0.4	1.1	0.8	1.5	0.7	1.4	6.0	0.7
Prowashonupana	0.0	0.0	5.4	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	0.7
Menuet	1.3	7.1	1.2	0.3	0.0	0.0	0.5	0.4	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.4
Other & Unknown	3.9	20.7	1.6	0.4	2.0	2.0	2.3	1.9	2.8	7.9	5.7	11.2	2.9	5.4	21.2	2.7
All Varieties	19.0	100.0	415.0	100.0	100.0	100.0	130.0	100.0	35.0	100.0	52.0	100.0	49.0	100.0	800.0	100.0

*Denotes variety recommended by the American Malting Barley Association for planting in 2006.

Barley: Percent of Total Seeded Acreage 2000-2006 & Seeded Acreage 2005-2006									
Variety	Percent of Total Seeded Acreage							Seeded Acres (000)	
	2000	2001	2002	2003	2004	2005 1/	2006	2005 1/	2006
Harrington*	49.9	45.7	47.6	47.1	39.8	29.4	30.5	264.4	243.9
AC Metcalfe*	--	--	--	0.7	4.9	9.2	17.7	83.1	141.7
Haybet	6.5	10.2	10.5	9.9	10.4	17.0	14.8	152.7	118.1
B Merit*	1.6	1.1	2.6	3.8	4.3	4.8	4.6	43.2	36.9
Tradition *	--	--	--	--	--	1.5	3.3	13.3	26.6
Moravian 37	1.5	3.8	4.3	3.9	3.0	3.2	2.7	28.9	21.3
Conrad	--	--	--	--	--	1.4	2.6	13.0	20.8
Bowman	2.8	2.1	3.0	2.1	1.4	2.6	2.1	23.2	16.8
Westford	1.2	2.7	3.2	2.3	2.4	2.0	1.9	18.0	15.5
Valier	0.1	0.6	1.1	0.9	2.3	1.5	1.8	13.5	14.2
Hays	--	--	--	--	--	0.7	1.7	6.2	14.0
Conlon*	--	--	--	--	0.9	0.7	1.7	6.4	13.5
Baronesse	6.2	5.0	3.9	4.1	3.9	3.8	1.7	33.9	13.3
Legacy*	--	--	0.6	1.0	2.8	1.3	1.6	11.6	12.8
Haxby	--	--	--	--	--	0.6	1.5	5.8	12.1
Hector	3.7	2.7	3.1	1.8	2.5	2.2	1.4	19.8	11.5
Gallatin	2.2	3.3	1.9	2.9	3.5	1.7	1.3	15.0	10.3
Westbred Xena	--	--	--	0.9	0.9	2.4	0.9	21.3	7.6
Stark	0.9	0.8	1.1	1.0	0.9	0.7	0.9	6.6	7.1
Lewis	1.5	1.5	1.6	1.6	1.9	0.9	0.8	8.5	6.4
Horsford	2.4	1.3	1.6	1.7	1.2	1.2	0.7	11.2	6.0
Prowashanupana	--	--	--	--	--	--	0.7	--	5.4
Menuet	--	--	--	--	--	--	0.4	--	3.0
Piroline	1.1	1.2	1.2	1.3	0.9	0.8	--	7.1	--
B 1202*	5.4	5.6	5.6	4.9	3.9	4.9	--	43.8	--
Other & Unknown	13.0	12.4	7.1	8.1	8.2	5.5	2.7	49.5	21.2
All Varieties	100.0	100.0	100.0	100.0	100.0	100.0	100.0	900.0	800.0

1/ Revised *Denotes variety recommended by the American Malting Barley Association for planting in 2005.

Barley: 2005 Seeded Acreage and Percent of Total Seeded by Districts 1/																
Variety	Northwest		North Central		Northeast		Central		Southwest		South Central		Southeast		State Total	
	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%
Harrington*	1.3	8.4	193.6	43.5	0.7	0.6	37.7	24.8	19.4	48.6	9.2	12.1	2.5	4.9	264.4	29.4
Haybet	1.4	8.9	20.5	4.6	52.8	44.4	34.4	22.6	6.6	16.6	8.8	11.6	28.2	54.3	152.7	17.0
AC Metcalfe*	0.0	0.0	73.4	16.5	1.7	1.4	6.4	4.2	0.6	1.4	0.9	1.2	0.1	0.2	83.1	9.2
B 1202*	0.7	4.4	30.3	6.8	0.0	0.0	3.6	2.4	0.0	0.0	9.2	12.1	0.0	0.0	43.8	4.9
B Merit*	0.0	0.0	34.7	7.8	0.1	0.1	6.7	4.4	0.4	0.9	1.3	1.7	0.0	0.0	43.2	4.8
Baronesse	4.2	26.3	11.1	2.5	0.8	0.7	10.8	7.1	3.4	8.6	1.6	2.1	2.0	3.9	33.9	3.8
Moravian 37	0.0	0.0	9.8	2.2	0.0	0.0	0.0	0.0	0.0	0.0	17.7	23.3	1.4	2.7	28.9	3.2
Bowman	0.0	0.0	8.9	2.0	4.4	3.7	6.4	4.2	0.0	0.0	1.4	1.8	2.1	4.1	23.2	2.6
Westbred Xena	0.4	2.7	12.9	2.9	0.0	0.0	2.0	1.3	0.0	0.0	6.0	7.9	0.0	0.0	21.3	2.4
Hector	0.0	0.0	8.5	1.9	2.4	2.0	3.0	2.0	0.0	0.0	1.4	1.8	4.5	8.6	19.8	2.2
Westford	1.2	7.4	4.0	0.9	1.4	1.2	5.0	3.3	1.8	4.5	4.0	5.2	0.6	1.2	18.0	2.0
Gallatin	2.6	16.3	7.6	1.7	0.0	0.0	1.8	1.2	0.9	2.3	1.5	2.0	0.6	1.2	15.0	1.7
Valier	0.7	4.2	8.5	1.9	3.8	3.2	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	13.5	1.5
Tradition*	0.0	0.0	0.0	0.0	13.3	11.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.3	1.5
Conrad	0.1	0.5	10.2	2.3	0.0	0.0	2.7	1.8	0.0	0.0	0.0	0.0	0.0	0.0	13.0	1.4
Legacy*	0.0	0.0	0.0	0.0	10.6	8.9	0.0	0.0	0.0	0.0	0.3	0.4	0.7	1.4	11.6	1.3
Horsford	0.3	1.6	1.8	0.4	0.7	0.6	4.6	3.0	0.6	1.4	3.0	4.0	0.2	0.4	11.2	1.2
Lewis	0.0	0.0	0.9	0.2	2.9	2.4	4.6	3.0	0.0	0.0	0.0	0.0	0.1	0.2	8.5	0.9
Piroline	0.0	0.0	1.8	0.4	0.5	0.4	2.7	1.8	1.3	3.2	0.8	1.0	0.0	0.0	7.1	0.8
Stark	0.0	0.0	0.0	0.0	6.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.2	6.6	0.7
Conlon *	0.0	0.0	0.0	0.0	1.1	0.9	3.5	2.3	0.0	0.0	0.8	1.0	1.0	2.0	6.4	0.7
Hays	0.0	0.0	0.4	0.1	1.4	1.2	0.5	0.3	0.4	1.1	2.2	2.9	1.3	2.5	6.2	0.7
Haxby	0.4	2.6	1.3	0.3	1.8	1.5	1.2	0.8	0.2	0.5	0.3	0.4	0.6	1.2	5.8	0.6
Other & Unknown	2.7	16.7	4.8	1.1	12.6	10.6	13.9	9.2	4.4	10.9	5.6	7.5	5.5	10.0	49.5	5.5
All Varieties	16.0	100.0	445.0	100.0	119.0	100.0	152.0	100.0	40.0	100.0	76.0	100.0	52.0	100.0	900.0	100.0

1/ Revised *Denotes variety recommended by the American Malting Barley Association for planting in 2005.